Amendment and Response
Applicant: Steven J. Simske et al.
Serial No.: 10/679,154
Filed: October 3, 2003
Docket No.: 100202598-1
Title: SYSTEM AND METHOD OF SPECIFYING IMAGE DOCUMENT LAYOUT

REMARKS

The following Remarks are made in response to the Non-Final Office Action mailed October 18, 2007, in which claims 1-48 and 50-65 were rejected.

With this Amendment, claims 1, 3-12, 14-22, 24-33, 35-48, 50, 51, 60, 61, and 65 have been amended to clarify Applicant's invention.

Claims 1-48 and 50-65, therefore, remain pending in the application and are presented for reconsideration and allowance.

Claim Rejections under 35 U.S.C. § 103

Claims 1, 2, and 48 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al., "Pink Panther: A Complete Environment for Ground-Truthing and Benchmarking Document Page Segmentation" in view of Huang et al. US Publication No. 2003/0053183.

Claims 3, 11, and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Huang et al. US Publication No. 2003/0053183, and Revankar et al. US Patent No. 5,767,978.

Claims 4 and 50 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Huang et al. US Publication No. 2003/0053183, and Hall Jr. et al. US Patent No. 6,768,816.

Claims 5 and 51 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Huang et al. US Publication No. 2003/0053183, and Sakai et al. US Patent No. 6,735,740.

Claims 6 and 52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Huang et al. US Publication No. 2003/0053183, and Ohta US Patent No. 6,163,623.

Claims 7, 15, and 53 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Huang et al. US Publication No. 2003/0053183, and Rangarajan US Patent No. 5,822,454.

Claims 8-10, 17, and 54-56 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Huang et al. US Publication No. 2003/0053183, and Rangarajan US Patent No. 5,822,454, and Revankar et al. US Patent No. 5,767,978.

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Claims 12, 13, 58, and 59 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Huang et al. US Publication No. 2003/0053183, and Fredlund et al. US Publication No. 2003/0058457.

Claims 14 and 60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Huang et al. US Publication No. 2003/0053183, and Wong et al. US Publication No. 2003/0067489.

Claims 16, 20, 61, and 64 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Huang et al. US Publication No. 2003/0053183, and Rangarajan US Patent No. 5,822,454, and Mahoney et al. US Patent No. 5,999,664.

Claims 18, 19, 62, and 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Huang et al. US Publication No. 2003/0053183, and Rangarajan US Patent No. 5,822,454, and Mahoney et al. US Patent No. 5,999,664, and Taylor et al. US Patent No. 5,848,184.

Claims 21 and 65 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Huang et al. US Publication No. 2003/0053183, and Rangarajan US Patent No. 5,822,454, and Mahoney et al. US Patent No. 5,999,664, and Ahlstrom et al. US Patent No. 6,594,030.

Claims 22-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509.

Claim 46 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Huang et al. US Publication No. 2003/0053183

Claims 25 and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Revankar et al. US Patent No. 5,767,978.

Claim 26 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Hall Jr. et al. US Patent No. 6,768,816, and Sakai et al. US Patent No. 6,735,740.

Claim 27 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Ohta US Patent No. 6,163,623.

Claims 28 and 36 are rejected under 35 U.S.C. 103(a) as being unpatentable over

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Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Rangarajan US Patent No. 5,822,454.

Claims 29-31 and 38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Rangarajan US Patent No. 5,822,454, and Revankar et al. US Patent No. 5,767,978.

Claims 33 and 34 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Fredlund et al. US Publication No. 2003/0058457.

Claim 35 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Wong et al. US Publication No. 2003/0067489.

Claims 37 and 41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Rangarajan US Patent No. 5,822,454, and Mahoney et al. US Patent No. 5,999,664.

Claim 39 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Taylor et al. US Patent No. 5,848,184.

Claim 40 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Rangarajan US Patent No. 5,822,454, and Mahoney et al. US Patent No. 5,999,664, and Taylor et al. US Patent No. 5,848,184.

Claim 42 is rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Rangarajan US Patent No. 5,822,454, and Mahoney et al. US Patent No. 5,999,664, and Ahlstrom et al. US Patent No. 6,594,030.

Claims 43-45 and 47 are rejected under 35 U.S.C. 103(a) as being unpatentable over Yanikoglu et al. in view of Rom US Patent No. 7,054,509, and Mahoney et al. US Patent No. 5,999,664.

With this Amendment, independent claim 1 has been amended to clarify that the method of processing an image includes "receiving a definition of at least one region within an image, the region definition having a location specification of the at least one defined region and a type specification of the at least one defined region;" "displaying boundaries of the at least one defined region according to the type specification of the at least one defined region;" "receiving a user-specified definition of a visible area of the

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image, the visible area definition being automatically expanded to fully enclose all defined regions of the image and having a specification of margins around the image;" and "generating an image layout definition based on the region definition of the at least one defined region of the image and the user-specified visible area definition of the image."

With this Amendment, independent claim 22 has been amended to clarify that the method of processing an image includes "determining a definition of at least one region within the image, the region definition having a location specification of the at least one region and a type specification of the at least one region;" "generating an image layout definition based on the region definition of the at least one region of the image;" "searching for an image layout definition template that best matches the generated image layout definition, the image layout definition template including at least one defined template region specifying at least one of a location, a type, and a modality for the defined template region;" and "conforming the generated image layout definition to the best-matched image layout definition template, including adjusting at least one of the location specification, the type specification, and a modality specification of the at least one region of the image to a corresponding one of the location, the type, and the modality of the defined template region of the best-matched image layout definition template."

With this Amendment, independent claim 48 has been amended to clarify that the system for processing an image includes "a graphical user interface operable to display the image, and receive a definition of at least one region within the image, the region definition having a location specification of the at least one defined region and a type specification of the at least one defined region," with "the graphical user interface further operable to display boundaries of the at least one defined region according to the type specification of the at least one defined region, the graphical user interface further operable to receive a user-specified definition of a visible area having a specification of margins around the image, the visible area definition being automatically expanded to fully enclose all defined regions of the image;" and "a processor generating an image layout definition based on the region definition of the at least

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least one defined region of the image and the user-specified visible area definition of the image."

With respect to the cited references, Applicant submits that these references, individually or in combination, do not disclose a method of processing an image as claimed in amended independent claim 1, do not disclose a method of processing an image as claimed in amended independent claim 22, and do not disclose a system for processing an image as claimed in amended independent claim 48.

In view of the above, Applicant submits that amended independent claims 1, 22, and 48, and the dependent claims depending therefrom, are each patentably distinct from the cited references and, therefore, are each in a condition for allowance. Applicant, therefore, respectfully requests that the rejections under 35 U.S.C. 103(a) be reconsidered and withdrawn, and that claims 1-48 and 50-65 be allowed.

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CONCLUSION

In view of the above, Applicant respectfully submits that pending claims 1-48 and 50-65 are all in a condition for allowance and requests reconsideration of the application and allowance of all pending claims.

Any inquiry regarding this Amendment and Response should be directed to either Nathan R. Rieth at Telephone No. (208) 396-5287, Facsimile No. (208) 396-3958 or Scott A. Lund at Telephone No. (612) 573-2006, Facsimile No. (612) 573-2005. In addition, all correspondence should continue to be directed to the following address:

IP Administration
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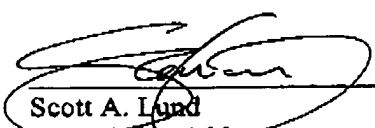Fort Collins, Colorado 80527-2400

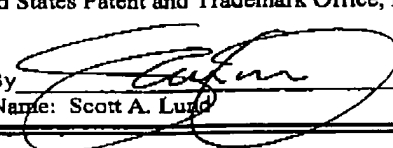Respectfully submitted,

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